

200

MGSFLRKQPSFLILLILHLGAREARALSSDGEAALAFKKAVTTSDCIIFLNWREQDVDPCNWKGVCDCSHKRVVCLILAYHKLGVPIPPEIGRLNQLQALSLOQNSLYGSLPPELGNCTKLQQLYLGQNYLSGHIPSEFGDLVELGTLDSLNTLGSIPPSSLKALKLTTSFNVSMNFL  
MITYSAQIAEGIKSFSFGGEAALFRNGVLASDVGIVLWRPEPDPDNWKGVCDAKTKRVTIALSLTYHKLRGPLPPGKEDQRLMLMHNQYSPFASLGNCTALEGYILQNYTGTGIPSEIGNLGGLNLLDLSNNNLLNGATPASLGQLKRLTKEFNVNNFL  
MDSTSNKMKKMEPTSGGRHGTGQVVGLCAALVTTAMAASLLCSTSMLTTPDGQALLELKLSFNSSQRLLTWKPTDPNCGWEGLSCSFPLRVQSINLPYMQGGIISPNIGKLDKLQRIALHQNLSLHGPIPSEIKNCTELRAIYLRLANQYQGGIPSEIGELIHLTLLDSLNLRRGTTIPASIGSLTHRLFLNLSTNFF  
MHTTMVALYITICSILFIVSKMISF  
LKYKKWA  
RKRKRIEENSLTG  
AK010780.q  
15227455.p  
AK103026.q  
AK065614.q  
lir3\_IRK  
lias\_TGFbR  
2phk\_PhK

210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390

TGAIPSPGSLVNFNETSFICNRGLCGKQINSVCKDAL-QSPSPNGPLPPSADDFINR-RNGKNSTRVISAVATVGALLVALNCFWGCFLYKN--FGKEDINGFRVELCGGSSIVMPHGDLPVYTRKHFKKLTMODENNIIIGVGCFCYVK--  
VGKIPSPGSLLARLSDSFNCNRNLCGKQIDIVCNDSG--NSTASG-SPTG--QGGNNPRLLISASATVGGLLVALNCFWGCFLYKK--LGRVEKSLSLVIDVGG--DLPYASKSDIHKKLESINBEHIIIGCCEGCVYK--  
SGEIPNVGVLGTFKSSSFVGNBLELCGLPIQKACRGTLGPFAVLPHSIDLSSAGVSPTNNKTSFLNGIVIGSMSTMALALIAVGLFLWICLLSRKSIGGSSYVMDKQTIPDGAALKTVQWNLPSGGCFCYVK--  
LSPKSFEMIMGLENKDOIIGSCGCYCCVIR--  
-VFPSSVVPDDEWEVSREKINILRRELQGECMVYEGNARDIKGEAEETRVAVKIVNEASLREKIEELNEDASVMKGET-CH  
GSGLPLLIVORTIARTIVLQESIEKCRGCEVVRG-  
-KWRCEBAVKIFSREGRSWFREAEIYOWMWHENI-LG  
-GFYENTEPKBIEORGVS SVVRCIHKPTCKEYAVK-  
IDVIGGGFSPEVQBLR-EATLKEVDILRKVSCIP

400

AK010780.q  
15227455.p  
AK103026.q  
AK065614.q  
lir3\_IRK  
lias\_TGFbR  
2phk\_PhK

410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590

YLVNLRYCNSPSSKLLIYDYLGGCNLDEVLHEKSEQ--LDWDARINHILGAAGCLAYLHEDC--SPRIIHRDIKSSNILLDGNLEARVSDCLAKIIE-DEES-HITTIVGCTFCYLAPEWMOGCR-ATEKDDVYSFVLLDEILS-  
YLVNLRYCNSPTSKLLIYDYLGGSLDEALKERKGSEQ--LDWDARVNHIIGAAGCLAYLHEDC--SPRIIHRDIKSSNILLDGNLEARVSDCLAKIIE-DEES-HITTIVGCTFCYLAPEWMOGCR-ATEKDDVYSFVLLDEILS-  
PLNWNARMKIALGSPRGCLAYLHEDC--SPFVIVHRDIKASNILLDRSMEPRVSDFCLARLIV-DNDA-HVTTIVGCTFCYLAPEWMOGCR-ATEKDDVYSFVLLDEILS-  
NIVELCYAAAPHENLILYDLMNGSLDTIILHCKEETRR--ALGWEARHICAAAGVPRCLAYLHEDC--IPHVIVHRDIKSSNILLDHNLEARVSDCLATLAK-PNIS-HVTTIVGCTFCYLAPEWMOGCR-ATEKDDVYSFVLLDEILS-  
BHVRLLGVSXKGQFTLVVMEIMAHGGLKSYLRSIRPEAENNPGRPPTILQEMIOMAAEIAACMAYIN--AKKEVHRDLAERNOMVAHDFTVKIGDFCMTRDX-ETDXXRKGKGGLLPVRWMAPESLKQCV-  
HIAADNKDNGTWTDLNLVSPYHEHGSFIDYLRYITV-VEGMIXKALSTAAGLAHLMFIVGTTQGPATPRHDLKSKNILVKNSTCCGADGCLAVRHDSDATDIDIAPNHRVSTKRYMAPEULDDSIINMKHFBPKRDYIAYGLVFWEIARRCSIGGIEHDYQLPYYDLPSPDPSVEEBPKRVVCEOKI  
NLLKDKTYETNPFPSLVEDIMKKQFDYLETKEVILRN-KETRIMRALLLEVICALEKRLN-  
KTRPSYLAPEWMOGCR-  
-PGEKLRREVCTPSYLAPEWMOGCR-  
DM-SQCVIMYDLAG-  
-SPPTWHRKQMLMLM-NIMS

600

AK010780.q  
15227455.p  
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AK065614.q  
lir3\_IRK  
lias\_TGFbR  
2phk\_PhK

610 620 630 640 650 660

VDPYCEG-VOIEGLDAILSIAKCVSISLDEEPETMERRVQMDIESDVTIYCPSSDFYDSE-  
VDLSCEG-VEREGLDAILSIAKCVSISLDEEPETMERRVQMDIESDVTIYCPSSDFYDSSD-  
IDENCGD-VEVERVBAHLDAACTADPQOFSMSAVLXMLEEEILSPCMSEIYEQHLEL  
VDSALESSFFADEVKIVFKVADRCLESEPCNPTMAEVVKLLEQAKNITA-  
MDGGYLD-QEDNCERVTDLMRNCWOFNPKMPTFLEIVNLKDDLHPSPFEVFFHSEENK  
RPNIPNRWQSCPEIPRVMAMKMRPCWVANGAARPTALRIRKTTISQLSQQQEGIKM  
GNYQFGSPEWDDYSDPVKLVSRFLVVQPKRQPAEEADAHPPFQOY